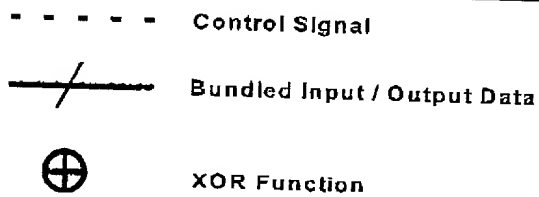
Figure 1

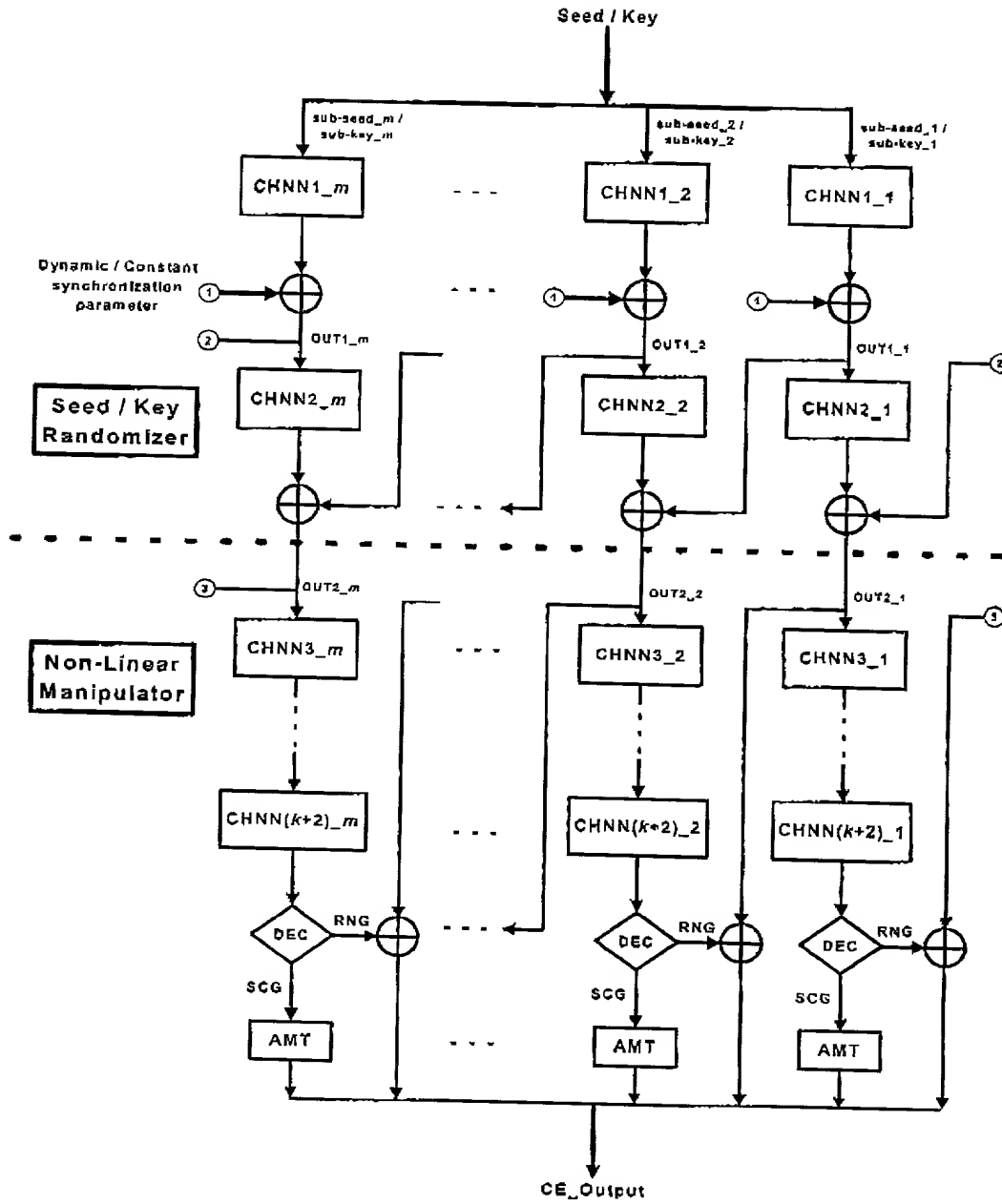


Figure 2

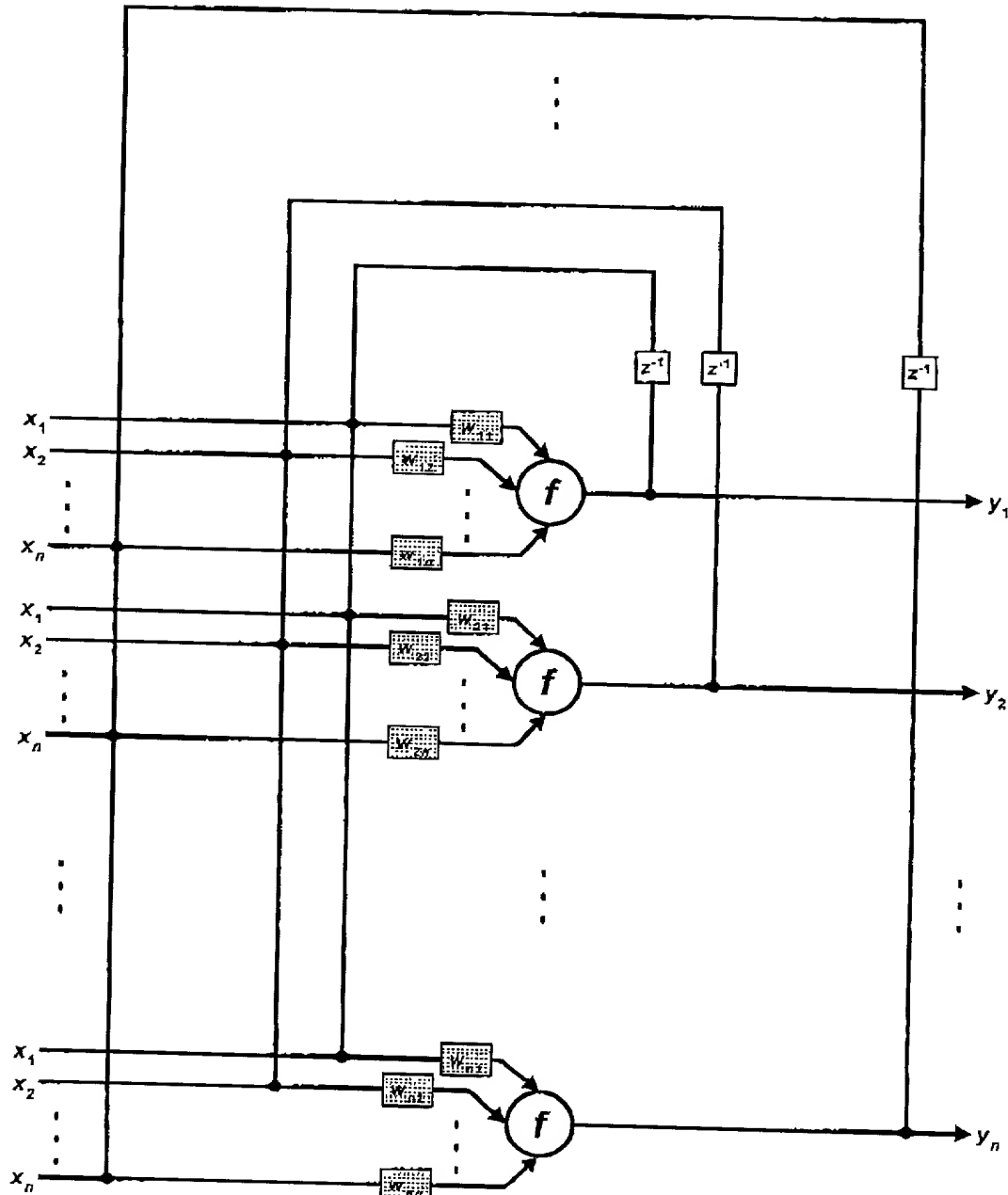


Figure 3

w_{ij} : Synaptic Weight from neuron i to neuron j
 x_i : Input
 y_i : Output

[illegible]

TABLE I

Figure 4

[illegible]

TABLE 2

The permutation matrix mapped the original $(0, 1, 2, 3, 4, 5, 6, 7)$ row into permuted $(4, 7, 2, 1, 6, 0, 3, 5)$ row.

Figure 5

Statistical test	Required interval	Output X_{out}	Result
Monobit test	$9654 < X < 10346$	10036	Pass
Poker test	$1.03 < X < 57.4$	6.1576	Pass
Runs test	Run = 1, $2267 \leq X \leq 2733$	2505	Pass
	Run = 2, $1079 \leq X \leq 1421$	1227	Pass
	Run = 3, $502 \leq X \leq 748$	616	Pass
	Run = 4, $223 \leq X \leq 402$	303	Pass
	Run = 5, $90 \leq X \leq 223$	176	Pass
	Run ≥ 6 , $90 \leq X \leq 223$	177	Pass
Long run test	Run ≥ 34 , $X = 0$	0	Pass

Table 3

Figure 6

Statistical test	Required interval	Output X_{out}	Result
Monobit test	$9654 < X < 10346$	10073	Pass
Poker test	$1.03 < X < 57.4$	5.5616	Pass
Runs test	Run = 1, $2267 \leq X \leq 2733$	2464	Pass
	Run = 2, $1079 \leq X \leq 1421$	1258	Pass
	Run = 3, $502 \leq X \leq 748$	629	Pass
	Run = 4, $223 \leq X \leq 402$	353	Pass
	Run = 5, $90 \leq X \leq 223$	157	Pass
	Run ≥ 6 , $90 \leq X \leq 223$	143	Pass
Long run test	Run ≥ 34 , $X = 0$	0	Pass

Table 4

Figure 7